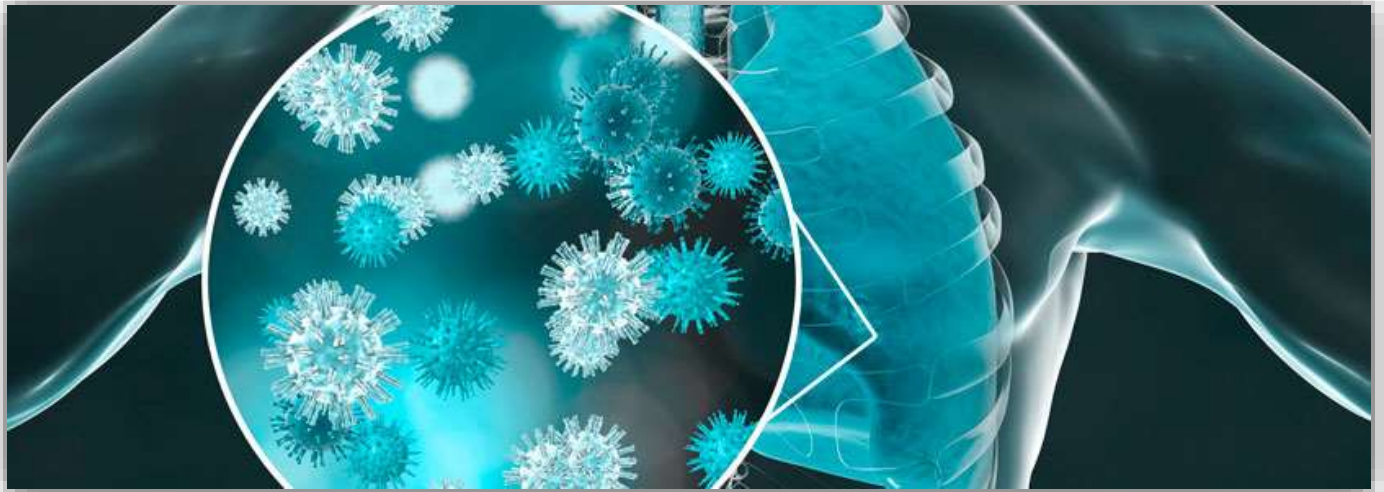


# HYDROGEN WATER : AN EFFECTIVE TREATMENT FOR COVID-19

KYK HYDROGEN WATER | 1,500 PPB of DH | KYK Co. Ltd. (South Korea)



Coronavirus also called Covid-19 virus infects our body by latching onto and entering healthy cells. Once inside, the invader makes copies of itself and multiplies throughout our body. The Coronavirus gains entry through our nose, eyes or mouth. It then grabs onto our cells by latching its spiky surface proteins to receptors on normal cells, especially those in your lungs. The viral proteins bust into cells through the ACE2 receptors. Once inside, the coronavirus hijacks our healthy cells and takes over command. Eventually, they kill some of the healthy cells.

Researchers found that Hydrogen is the possible treatment for Covid-19. Hydrogen Inhalation can be used as a possible therapy of oxy-hydrogen gas mixture containing 66% hydrogen and 33% oxygen, where oxygen is addressing some hypoxia and hydrogen can be beneficial for anti-inflammatory effects and lungs and alleviating some of the symptoms associated with coronavirus.

As per researches done on Molecular Hydrogen, researchers claim that H<sub>2</sub> is safe and can reduce free radicals and inflammatory cytokines. Drinking hydrogen water improve the condition cytokine storm. As a new study indicates that COVID-19 triggers cytokine storms in their host, causing their immune system goes berserk. This 'VIRUS- ACTIVATED' immune response can be deadly, causing severe respiratory distress and the subsequent shutdown of multiple organs.

Cytokines are communicating proteins or inflammatory mediators and they are needed for proper inflammatory response in our body to reduce inflammation. Doctors use immuno-suppressing agents, the patients who are severely ill with COVID-19 uses this to suppress their immune system, but it can be a difficult situation for a doctor. Hydrogen has no cytotoxic or adverse effects and is also demonstrated that hydrogen can have regulatory effects on our immune system as well as being able to have ability to

down-regulate pro-inflammatory cytokines and up-regulate anti-inflammatory cytokines and a broad spectrum leukocytes and white blood cells. Hydrogen can potentially address the cytokine storm because of its ability to regulate pro-inflammatory mediators.



Reports of COVID-19 patients also prove that they have alleviated expression of pathways that they are regulating mucus secretion in their lungs. Hydrogen potentially helps in this regard. Drinking hydrogen rich water regularly decreases lung airway resistance and increases lung compliance. Also it is indicated that hydrogen suppresses oxidative stress reaction. The protein expression of mucin MUC5C and aquaporin5 involved in mucus hyper-secretion were analyzed and the data revealed that hydrogen regulated MUC5AC level in bronchoalveolar lavage fluid and lung tissue, up-regulated aquaporin5 level in lung tissue of chronic obstructive pulmonary diseases.

In conclusion, these results suggest that hydrogen exhibits significant protective effects on chronic obstructive pulmonary diseases through alleviating inflammation, reducing oxidative stress lessening mucus hyper-secretion. Importantly, hydrogen could improve respiratory system such as cough.



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